

# ABSTRACT OF THE DISCLOSURE

There is provided a rotary encoder which can eliminate an angle error caused by an eccentricity from a measured angle without strictly adjusting hardware and which can also  
5 eliminate a graduation error. Detection of a rotation angle of the rotating section and measurement of an error  $E(\theta_n)$  included in the detected angle  $\theta$  are performed in advance, an error function  $E(\theta)$  represented by a periodic function of the detected angle  $\theta$  is calculated on the basis of these values, a  
10 storing means for storing the periodic function of the calculated error  $E(\theta)$  is arranged, and an angle obtained by subtracting a value obtained by substituting the detected angle  $\theta_a$  for variables in the error function  $E(\theta)$  from the detected angle  $\theta_a$  is displayed on a display unit.